



IN THE CLAIMS

Please amend the claims as follows:

Claims 1-94 (Cancelled).

95. (New) A method for obtaining human cells with enhanced biological function comprising culturing at least one of human osteoblasts, human osteoclasts, human neural cells, human adipocytes, and human T cells under physiologically acceptable liquid culture conditions,

said conditions including replacement of a liquid culture medium at rate of from 50% to 100% daily replacement for a cell density of from  $1 \times 10^4$  to  $1 \times 10^7$  cells per ml of culture for more than one day and for a time sufficient to obtain human cells with enhanced biological function,

wherein said enhanced biological function is relative to the biological function of the human cells that are cultured in a static culture.

96. (New) The method of claim 95, wherein the culture medium is continuously perfused at a ramped rate proportional to the lactate concentration and/or cell density to replace the culture medium without substantial dilution of the cell density.

97. (New) The method of claim 95, wherein the human cells are cultured for at least 2 days.

98. (New) The method of claim 95, wherein the culture medium contains at least 1 growth factor which stimulates the proliferation of the human cells.

99. (New) The method of claim 95, wherein the human cells have enhanced replicative potential.

100. (New) The method of claim 95, wherein the human cells are human osteoblasts.

101. (New) The method of claim 100, wherein the human cells have enhanced replicative potential.

102. (New) The method of claim 95, wherein the human cells are human osteoclasts.

103. (New) The method of claim 102, wherein the human cells have enhanced replicative potential.

104 (New): The method of claim 95, wherein the human cells are human neural cells.

105. (New) The method of claim 104, wherein the human cells have enhanced replicative potential.

106 (New): The method of claim 95, wherein the human cells are human adipocytes.

107. (New) The method of claim 106, wherein the human cells have enhanced replicative potential.

108 (New): The method of claim 95, wherein the human cells are human T-cells.

109. (New) The method of claim 108, wherein the human cells have enhanced replicative potential.

110. (New) The method of claim 95, wherein the human cells are human T cells and human osteoclasts.

111. (New) The method of claim 110, wherein the human cells have enhanced replicative potential.

112. (New) The method of claim 95, wherein the human cells are human osteoblasts and human osteoclasts.

113. (New) The method of claim 112, wherein the human cells have enhanced replicative potential.